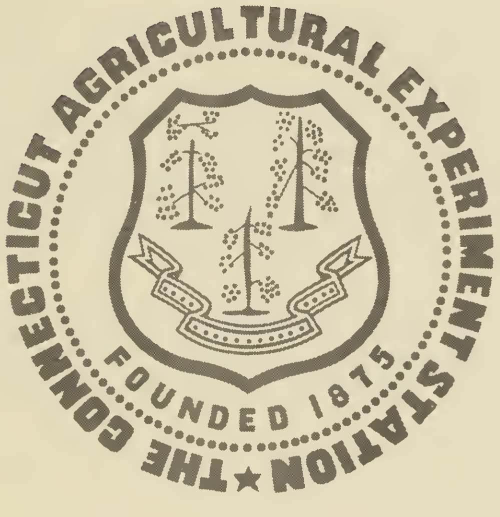
COMMERCIAL FERTILIZERS

Report for 1967, 1968

J. GORDON HANNA



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REPORT ON INSPECTION AND ANALYSIS OF COMMERCIAL FERTILIZERS

1967

J. Gordon Hanna, Chief Chemist

Listed in this report for 1967 are the manufacturer's names, the number of samples of the products of each manufacturer collected, the number of these samples found deficient and the ratios of the percentages of nitrogen, phosphoric acid, and potash found to the percentages guaranteed. Results of 666 samples of fertilizer produced by 126 manufacturers are summarized. A table of the tonnage sold during the period between July 1, 1966 and June 30, 1967 is included.

Analyses were made by Messrs. R. A. Botsford, S. P. Squires, W. O. Mueller, R. E. West, Miss H. Kocaba and Mrs. J. A. Pierson. Inspection and sampling were by Mr. R. R. Nichols.

COMPLIANCE OF 1967 FERTILIZER SAMPLES WITH GUARANTEES

Manufacturer	No. of Samples	No. of guarantees			Samples deficient		Average % of claims	
		N	$P_2O_5+K_2O$	total	N	$P_2O_5+K_2O$	N	$P_2O_5+K_2O$
Agrico Chemical Co.	34	29	61	90	6	11	101.2	103.4
Agricultural Products Co.	6	6	12	18	0	1	118.6	105.7
Agricultural Supply Co.	2	2	4	6	1	0	102.9	227.5
Agway, Inc.	37	34	67	101	5	10	110.9	110.3
Alaska Fertilizer Co.	1	1	2	3	0	0	112.0	121.5
Allied Chemical Corp.	1	1	0	1	0	-	100.6	---
American Cyanamid Co.	4	4	0	4	0	-	100.3	---
American Fertilizer Co.	2	2	4	6	0	0	102.2	105.4
American Potash & Chemical Corp.	1	0	1	1	-	0	---	100.5
Archer-Daniels-Midland Co.	1	1	0	1	0	-	104.0	---
Armour Agricultural Chemical Co.	10	10	19	29	0	0	116.4	110.4
Asgrow Seed Co.	5	5	9	14	0	1	103.9	124.0
Atlas Fish Fertilizer Co.	1	1	1	2	0	0	108.8	112.4
Baker Castor Oil Co.	4	0	0	0	-	-	---	---
F. A. Bartlett Tree Expert Co.	1	1	2	3	0	0	102.0	101.8
The Baugh Chemical Co.	1	0	1	1	-	0	---	101.1
Black Magic, Inc.	1	1	2	3	1	0	80.4	126.0
Blackstone Guano Co., Inc.	4	4	8	12	1	1	101.5	113.2
Bristol Nurseries, Inc.	1	1	2	3	0	0	105.5	109.6
The Brode Corporation	4	4	0	4	0	-	99.9	---
Brookside Nurseries, Inc.	6	6	6	12	1	2	105.4	101.5
Buckeye Cellulose Corp.	4	4	0	4	0	-	101.8	---
Cadwell and Jones, Inc.	18	13	22	35	1	2	107.3	112.3
Cambridge Labs, Inc.	1	1	0	1	0	-	102.4	---
Peter Cascio Nursery, Inc.	3	3	6	9	2	1	97.0	103.9
Chevron Chemical Co.	7	7	14	21	0	0	103.0	104.5

Chilean Nitrate Sales Corp.	2	2	1	3	0	0	100.7	100.3
Circle "P" Plant Foods	1	1	2	3	0	0	100.6	277.9
Clinton Nursery Products, Inc.	4	4	8	12	0	1	113.2	91.5
Consolidated Rendering Co.	60	50	99	149	9	14	110.9	108.6
Danbury Garden Center	1	1	2	3	0	0	101.6	112.0
Davey Tree Expert Co.	3	3	6	9	1	1	105.8	108.6
E. I. duPont de Nemours & Co.	3	3	2	5	0	0	102.7	100.5
Elanco Products Co.	10	10	20	30	0	0	104.0	111.0
Espoma Company	6	6	12	18	0	0	122.5	124.9
Estate Fertilizer	1	1	2	3	1	1	95.2	101.4
Leon Ezzel, Inc.	2	2	4	6	1	1	99.2	111.5
Faesy and Besthoff, Inc.	13	12	25	37	2	4	111.1	120.0
Farmers Organic Corp.	2	2	4	6	0	1	109.0	122.6
Farmingdale Garden Laboratories, Inc.	5	5	10	15	1	3	104.6	104.1
Federal Chemical Co.	14	14	28	42	6	6	100.4	104.0
Fer-Mel Corp.	10	10	18	28	1	3	105.1	114.6
First National Stores, Inc.	1	1	2	3	0	0	118.0	121.0
Ford Motor Co.	1	1	1	2	0	0	100.6	100.8
Garfield Williamson, Inc.	2	2	4	6	2	0	95.6	110.1
Glen Terrace Nurseries, Inc.	1	1	2	3	0	0	100.0	105.9
Glorion Corp.	12	12	24	36	1	1	114.2	118.9
Golden Rod Oil Meal Sales Co.	6	6	0	6	1	-	101.3	---
Gold Star Nursery Co.	1	1	2	3	0	0	312.0	304.0
Goulard & Olena, Inc.	4	4	5	9	0	0	162.2	107.3
W. R. Grace & Co.	4	3	5	8	0	0	100.2	107.0
Grand Union Co.	3	3	6	9	0	0	103.6	105.9
The Great Atlantic & Pacific Tea Co.	4	4	6	10	1	2	121.8	116.5
Greenlife Products Co., Inc.	4	4	8	12	1	2	104.2	108.6
Green Ribbon Products Co.	3	3	6	9	0	0	105.2	110.6
Green Thumb Products	1	1	2	3	0	0	107.5	115.0
Gro Fast Fertilizer Associates	3	3	6	9	0	0	106.4	105.5

Manufacturer	No. of Samples	No. of guarantees			Samples deficient		Average % of claims	
		N	P_2O_5+K_2O	total	N	P_2O_5+K_2O	N	P_2O_5+K_2O
Halstead Distributing Corp.	3	3	6	9	0	1	105.7	104.9
Chas. C. Hart Seed Co.	5	5	10	15	0	1	116.0	108.6
Haynie Products, Inc.	1	0	0	0	-	-	---	---
Hercules Powder Co., Inc.	2	2	0	2	0	-	100.8	---
Heritage House Products	4	4	8	12	0	1	111.2	111.2
Hills Korvette Supermarkets	4	4	8	12	0	0	105.6	104.4
A. H. Hoffman, Inc.	8	8	15	23	2	1	126.2	124.4
Hydroponic Chemical Co., Inc.	1	1	2	3	0	0	110.9	110.3
Hy-Trous Corp.	2	2	4	6	0	0	151.5	108.3
International Minerals & Chemical Corp.	8	7	13	20	1	1	109.1	113.8
Kennett Oil Mill, Inc.	4	4	0	4	0	-	99.6	---
Kerr-McGee Chemical Corp.	67	54	106	160	10	17	110.0	114.0
Kind & Knox Gelatin Co.	1	0	1	1	-	0	---	100.1
E. J. Korvette, Inc.	10	10	20	30	2	4	138.4	152.0
Lebanon Chemical Corp.	5	5	9	14	0	0	110.0	115.6
Lewis Brothers, Inc.	1	1	2	3	1	0	80.0	125.3
Liberty Fertilizer Group	3	3	6	9	0	1	102.4	107.6
Lofts Pedigreed Seed, Inc.	3	3	4	7	1	1	108.2	98.3
Luzerne Fertilizer Co.	3	3	6	9	1	1	110.1	108.1
McArdle's Seed Co.	2	2	4	6	1	1	96.8	116.0
McNairs Farm	1	1	2	3	0	0	102.0	180.3
Miller Chemical & Fertilizer Corp.	1	1	2	3	0	0	102.4	99.8
Minter City Oil Mill	2	2	0	2	0	-	108.2	---
Mississippi Cottonseed Products Co.	6	6	0	6	2	-	98.3	---
Natural Plant Food Co., Inc.	2	2	4	6	0	0	97.0	99.9

Old Deerfield Fertilizer Co.	3	3	6	9	0	1	102.9	98.3
Old Fox Agricultural Sales, Inc.	25	19	44	63	2	13	103.9	109.5
Olin Mathieson Chemical Corp.	1	1	2	3	0	0	100.9	101.7
Organic Compost Corp. of Pa.	5	5	10	15	0	0	268.8	348.8
Pan Britannica Industries, Ltd.	1	1	2	3	0	0	108.8	100.0
Lee Patten Seed Co.	2	2	4	6	0	1	110.7	110.0
Patco, Inc.	3	3	6	9	0	1	107.3	103.6
Pax Company	2	2	2	4	0	0	125.2	123.8
Pennsylvania Dutch Fertilizer Co.	4	4	8	12	1	1	102.5	106.7
Perk-Up Products Co.	1	1	2	3	0	0	100.0	111.6
Robert B. Peters Co.	4	4	8	12	0	1	104.9	101.6
Plant Joy Company	1	1	2	3	0	0	128.8	113.5
Platt's Garden Center	1	1	2	3	1	0	91.2	123.6
Frank Policastroan Sons, Inc.	1	1	2	3	1	0	96.0	102.2
Potash Co. of America	1	0	1	1	-	0	---	100.0
Ra-Pid-Gro Corp.	1	1	2	3	0	0	100.2	102.4
Ross Daniels, Inc.	3	3	6	9	0	1	117.3	115.3
Schultz Co.	1	1	2	3	0	1	125.6	106.9
O. M. Scott & Sons Co.	8	8	16	24	0	2	101.2	102.9
Sears, Roebuck & Co.	21	21	39	60	3	5	147.7	150.2
Sewerage Commission - City of Milwaukee	3	2	3	5	0	0	101.0	142.0
Shell Oil Co.	2	2	4	6	1	0	91.9	113.6
Sherwin-Williams Co.	1	1	1	2	0	0	102.6	164.0
Walter W. Simmons & Sons, Inc.	1	0	1	1	-	-	---	---
Smith-Douglass, Div. of Borden	12	12	21	33	0	2	106.6	114.7
Southern Cotton Oil Co., Inc.	2	2	0	2	1	-	97.6	---
Southwest Potash Corp.	4	4	4	8	0	0	104.8	100.8
Specialty Mfg. Co.	1	1	2	3	0	0	105.5	103.9
Spencer Kellogg Div.	3	3	0	3	0	-	104.1	---
A. E. Staley Mfg. Co.	7	7	0	7	0	-	104.7	---

Manufacturer	No. of Samples	No. of guarantees			Samples deficient		Average % of claims	
		N	$P_2O_5+K_2O$	total	N	$P_2O_5+K_2O$	N	$P_2O_5+K_2O$
Sterns Nurseries, Inc.	4	4	8	12	1	1	101.7	102.0
Stokle, Inc.	1	1	2	3	0	0	304.0	337.0
Swift & Co. Agr. Chemical Div.	18	18	35	53	5	5	107.8	107.4
Swiss Farms, Inc.	3	3	6	9	0	0	102.0	104.9
Thomason Rauch, Div. Thomason Industries, Inc.	1	1	2	3	0	0	100.0	127.3
Tupelo Oil Mill, Inc.	2	2	0	2	0	-	105.8	---
Two Guys	5	5	10	15	4	0	91.9	129.2
Universal Chemical Co., Inc.	2	2	4	6	0	0	104.4	101.9
Vaughan's Seed Co.	1	1	2	3	0	0	100.0	105.0
Walker-Gordon Laboratory	2	2	4	6	0	0	113.0	133.5
Warren's Turf Nursery	1	1	2	3	0	0	101.6	102.8
Western Auto Supply Co.	2	2	4	6	1	0	106.4	114.6
Andrew Wilson, Inc.	1	1	2	3	0	0	157.6	183.3
S. D. Woodruff & Sons	2	2	4	6	1	1	98.5	115.2

TONNAGES OF FERTILIZER MATERIALS AND MIXED FERTILIZERS PURCHASED DURING THE PERIOD OF JULY 1, 1966 - JUNE 30, 1967

		Tonnage	
I.	Containing chiefly nitrogen		
	Nitrate of ammonia	1,527	
	Nitrate of soda	184	
	Sulfate of ammonia	8	
	Cyanamid	267	
	Urea	329	
	Nitrogen solutions	448	
	Castor pomace	359	
	Cottonseed meal	1,024	
	Linseed meal	37	
	Anhydrous ammonia	3	
			4,204
II.	Containing chiefly phosphoric acid:		
	Superphosphate, 20%	2,573	
	Superphosphate, 46%	1,325	
	Dicalcium phosphate	271	
	Phosphate rock	21	
	Precipitated bone	4	
			4,194
III.	Containing chiefly potash:		
	Muriate of potash	1,349	
	Sulfate of potash-magnesia	56	
	Cotton hull ashes	49	
			1,454
IV.	Containing nitrogen and phosphoric acid:		
	Bone meal	381	
	Diammonium phosphate	1,136	
	Dry ground fish	7	
	Ammonium phosphonitrate	1	
			1,525
V.	Containing nitrogen and potash:		
	Nitrate of potash	81	
	Nitrate of potash-soda	80	
			161
VI.	Mixed fertilizers:		
	Commercial mixtures	49,910	
	Special and home mixtures	3,298	
	Special tobacco mixtures	6,001	
			59,209
VII.	Miscellaneous:		
	Borax	12	
	Sheep, cattle and poultry manure	2,291	
	Iron	2	
			2,305
	Total		73,052

MIXED FERTILIZER DISTRIBUTION

Grade	Tons	Grade	Tons	Grade	Tons
0-10-30	408	8- 6- 4	693	15-10-10	4047
0-15-30	972	8- 8- 8	18	15-15-15	1019
0-20-20	322	8-10-10	1009	16- 3- 3	190
0-25-25	100	8-12- 6	29	16- 4- 4	69
3- 9-21	42	8-12-12	124	16- 8- 4	30
4- 3- 2	99	8-16- 8	32	16- 8- 8	480
4- 6- 4	70	8-16-16	525	16- 8-12	16
4- 6- 6	21	9- 5- 3	171	17- 4- 4	20
4-10-40	124	9- 8- 8	117	18-24-16	18
4-16-20	95	9- 9- 9	20	20- 5- 5	159
5- 4- 0	347	10- 5- 5	604	20-10- 5	820
5- 8- 7	61	10- 6- 4	6965	20-10- 8	19
5-10- 5	1945	10- 8- 2	11	20-10-10	461
5-10-10	3851	10- 8- 4	90	20-12- 8	325
5-20-20	31	10- 8- 8	14	20-20-20	20
6- 3- 6	924	10-10-10	9377	21- 6-11	116
6- 6- 4	10	10-15-15	104	22- 5- 5	577
6- 7- 4	11	10-20-10	411	22- 8- 4	202
6- 8- 6	220	10-20-20	637	23- 7- 7	1827
6- 8- 8	3171	11- 4- 6	15	23-19-17	19
6-10- 4	236	11- 4- 7	54	24- 4- 6	471
6-10-10	398	12- 4- 4	19	24- 6- 6	65
6-12- 4	104	12- 4- 8	294	24- 6- 8	98
6-12-12	65	12- 5- 7	385	24- 9- 5	32
6-24-24	32	12- 6- 6	65	24-12-12	39
7- 7- 7	224	12- 6- 8	1282	25- 5-10	26
7- 8- 5	15	12-12-12	30	25-10- 5	98
7-10- 5	37	13-13-13	38	25-12-10	225
7-40- 6	23	14- 3- 3	43	Other grades (less than 10 tons each)	132
8- 4- 4	14	15- 6- 8	59		
8- 6- 2	198	15- 8-12	885		
				Total	49,910

REPORT ON INSPECTION AND ANALYSIS OF COMMERCIAL FERTILIZERS

1968

J. Gordon Hanna, Chief Chemist

Listed in this report for 1968 are the manufacturer's names, the number of samples of the products of each manufacturer collected, the number of these samples found deficient and the ratios of the percentages of nitrogen, phosphoric acid, and potash found to the percentages guaranteed. Results on 532 samples of fertilizer produced by 112 manufacturers are summarized. A table of the tonnage sold during the period between July 1, 1967 and June 30, 1968 is included.

Analyses were made by Messrs. R. A. Botsford, S. P. Squires, W. O. Mueller, R. E. West, Miss H. Kocaba and Mrs. J. A. Pierson. Inspection and sampling were by Mr. R. R. Nichols.

COMPLIANCE OF 1968 FERTILIZER SAMPLES WITH GUARANTEES

Manufacturer	No. of Samples	No. of guarantees			Samples deficient		Average % of claims	
		N	$P_2O_5+K_2O$	total	N	$P_2O_5+K_2O$	N	$P_2O_5+K_2O$
Acme Quality Paints, Inc.	1	1	2	3	0	0	107.2	103.0
Agrico Chemical Co.	24	21	41	62	2	4	104.4	102.3
Agricultural Products, Inc.	1	1	2	3	0	0	105.0	104.0
Agricultural Supply Co.	5	5	10	15	0	0	122.1	131.2
Agway, Inc.	35	30	63	93	2	4	109.7	110.7
American Cyanamid Co.	5	5	0	5	1	0	100.1	---
Armour Agricultural Chemical Co.	9	9	15	24	3	0	99.7	116.6
Asgrow Seed Co.	3	3	6	9	2	0	95.3	110.0
Atlas Fish Fertilizer Co.	1	1	2	3	0	0	109.6	134.0
The Baker Caster Oil Co.	3	0	0	0	-	-	---	---
Baker-Walter-Simmons & Son, Inc.	1	0	0	0	-	-	---	---
Black Magic, Inc.	1	1	2	3	1	0	94.0	110.0
Blackstone Guano Co.	6	6	12	18	0	1	194.7	151.8
Bristol Nurseries, Inc.	1	1	2	3	0	0	103.0	102.8
Brockville Chemical Industries, Ltd.	1	1	0	1	0	-	100.0	---
Brookside Nurseries, Inc.	1	1	0	1	0	-	106.3	---
Cadwell & Jones, Inc.	23	16	12	28	3	0	102.2	119.7
Cambridge Labs, Inc.	2	2	4	6	0	0	108.1	102.7
Carolina Nitrogen Corp.	2	2	0	2	0	-	100.9	---
Peter Cascio Nursery	3	3	6	9	1	0	106.7	105.3
Chevron Chemical Co.	13	13	24	37	0	1	110.9	108.4
Chilean Nitrate Sales Corp.	2	2	0	2	0	-	100.2	---
Circle "P" Plant Foods, Inc.	1	1	2	3	0	0	117.8	287.3
Clinton Nursery Products, Inc.	2	2	4	6	0	0	107.6	108.0
Cocke & Co.	4	4	0	4	0	-	107.3	---
Corenco	40	32	64	96	6	10	111.5	110.6

Daggett-Fison Co.	1	1	2	3	0	0	104.7	101.0
Darbco	2	2	4	6	0	0	112.8	106.4
E. I. duPont de Nemours & Co., Inc.	3	3	2	5	0	0	102.6	100.5
Dyersburg Oil Mill Co.	2	2	0	2	0	-	101.8	---
Eastman Gelatine Corp.	4	0	4	4	-	0	---	105.4
Elanco Products Co.	5	5	10	15	1	0	102.5	112.2
The Espoma Company	4	4	8	12	0	0	120.6	115.2
Estate Fertilizer	2	2	4	6	1	0	98.9	108.3
Faesy & Besthoff, Inc.	11	10	18	28	0	0	112.2	123.0
Farmingdale Garden Labs, Inc.	5	5	10	15	0	1	109.2	105.2
Federal Chemical Co.	9	9	18	27	2	0	102.3	109.7
The Fer-Mel Corp.	1	1	2	3	0	1	100.0	92.7
Fox Point	2	2	4	6	1	0	97.2	105.4
The Garden Exchange, Inc.	1	1	2	3	1	0	93.6	126.0
Garfield Williamson, Inc.	1	1	2	3	0	0	103.2	101.2
Glen Terrace Nurseries, Inc.	1	1	2	3	0	0	100.0	108.0
Glorion Corp.	3	3	6	9	0	0	119.4	125.9
Gold Star Nursery Co.	1	1	2	3	0	0	240.0	248.0
Grand Union Co.	2	2	4	6	0	0	107.6	119.4
The Great Atlantic & Pacific Tea Co.	4	4	8	12	0	1	109.4	102.6
Green Beauty Products	2	2	4	6	0	0	106.8	114.5
Greenlife Products Co., Inc.	4	4	8	12	2	1	97.2	91.5
Green Ribbon Products Co.	3	3	6	9	1	0	100.3	111.9
Grow-Fast Fertilizer Associates	1	1	2	3	0	0	101.6	101.2
Halstead Distributing Corp.	1	1	2	3	0	0	107.2	100.5
Hercules, Inc.	1	1	0	1	0	-	100.2	---
Heritage House Products	4	4	8	12	0	0	105.8	120.0
Hills-Korvette Supermarkets	4	4	8	12	0	1	109.8	107.2
A. H. Hoffman, Inc.	7	7	14	21	0	1	138.2	132.5

Manufacturer	No. of Samples	No. of guarantees			Samples deficient		Average % of claims	
		N	$P_2O_5+K_2O$	total	N	$P_2O_5+K_2O$	N	$P_2O_5+K_2O$
The Hy-Trous Corp.	3	3	6	9	0	0	138.8	111.8
Independence Hall Seed Co.	1	1	0	1	0	-	153.3	---
International Minerals & Chemical Corp.	8	6	13	19	2	1	101.7	116.6
Kapco Division	1	1	2	3	0	1	108.0	84.4
Kennett Oil Mill, Inc.	2	2	0	2	0	-	100.9	---
Kerr-McGee Chemical Corp.	40	34	69	103	5	5	113.9	113.6
Kind & Knox Gelatin Co.	2	0	2	2	-	0	---	103.2
E. J. Korvette	5	5	8	13	1	1	106.0	105.6
Lebanon Chemical Corp.	1	1	2	3	0	0	107.4	115.1
Liberty Fertilizer Group	1	1	2	3	0	0	100.0	108.5
Longlife Fish Food Products Division	1	1	2	3	0	0	141.1	117.1
Luzerne Fertilizer Co.	2	2	4	6	0	0	100.0	105.4
Maxton Oil & Fertilizer Co.	2	2	0	2	0	-	100.3	---
McArdle's Seed Co.	1	1	2	3	0	0	106.4	108.8
Midwest Organic Fertilizer Co.	1	1	2	3	0	0	105.6	100.4
Miller Chemical & Fertilizer Corp.	1	1	0	1	0	-	111.3	---
Mississippi Cottonseed Products Co.	4	4	0	4	0	-	104.0	---
Nassau Garden, Inc.	4	4	8	12	2	0	102.8	115.1
Old Deerfield Fertilizer Co.	3	3	6	9	1	0	98.9	102.1
Old Fox Agricultural Sales, Inc.	30	28	59	87	2	3	103.5	106.4
Olin Mathieson Chemical Corp.	2	2	2	4	0	0	100.5	104.4
Organic Compost Corp. of Pa.	3	3	6	9	0	0	144.0	186.0

Patco Products, Inc.	10	10	20	30	1	2	108.9	105.2
Pennsylvania Dutch Fertilizer Co.	5	5	10	15	1	0	102.5	107.0
Robert B. Peters Co., Inc.	6	6	11	17	0	1	106.8	106.7
Plant Shine Co.	1	1	2	3	0	1	109.6	94.2
Plantabbs Corp.	2	2	4	6	0	0	108.8	105.5
Planters Oil Mill	2	2	0	2	0	-	103.1	---
Ra-Pid-Gro Corp.	1	1	2	3	0	0	100.9	107.8
Ross Daniels, Inc.	4	4	8	12	0	0	134.5	116.3
O. M. Scott & Sons Co.	10	10	18	28	1	0	101.5	107.1
Sears, Roebuck & Co.	21	21	39	60	1	1	125.1	130.9
Sewerage Commission of the City of Milwaukee	2	2	3	5	0	0	106.7	175.0
Shell Oil Co.	1	1	2	3	0	0	104.0	103.2
Sherwin-Williams Co.	3	3	3	6	0	0	114.2	179.3
Sierra Chemical Co.	1	1	2	3	0	0	109.2	103.7
J. Howard Smith, Inc.	4	4	0	4	0	-	105.8	---
Smith-Douglass Div.	6	6	9	15	0	0	112.9	107.7
South Avenue Corp.	2	2	2	4	0	0	222.0	122.4
Southern Cotton Oil Division	4	4	0	4	1	-	100.0	---
Southern Soya Corp. of Leesville	4	4	0	4	0	-	104.3	---
Southwest Potash Corp.	4	4	4	8	0	3	105.9	97.4
Spencer Kellogg Division	2	2	2	4	0	0	104.8	114.2
Stadler Fertilizer Co.	1	1	2	3	0	0	100.0	108.6
A. E. Staley Manufacturing Co.	6	6	0	6	0	-	102.8	---
Stern''s Garden Products, Inc.	2	2	4	6	0	0	102.7	104.9
Stokle, Inc.	1	1	2	3	0	0	284.0	335.0
Swift & Co.	14	14	25	39	0	0	114.3	109.1
Swiss Farms, Inc.	3	3	6	9	0	0	109.0	116.2

Manufacturer	No. of Samples	No. of guarantees			Samples deficient		Average % of claims	
		N	P_2O_5+K_2O	total	N	P_2O_5+K_2O	N	P_2O_5+K_2O
Thomason Ranch	1	1	2	3	1	0	50.0	103.0
Two Guys	2	2	4	6	0	0	100.8	106.8
Universal Chemical Co., Inc.	1	1	2	3	0	0	100.0	103.3
Vaughan's Seed Co.	2	2	4	6	0	0	104.4	101.9
Walker-Gordon Laboratory Co.	1	1	2	3	0	0	100.0	127.0
Warren's Turf Nursery	2	2	4	6	1	0	94.9	117.9
Western Auto Supply Co.	1	1	2	3	1	0	96.0	144.5
Andrew Wilson, Inc.	1	1	2	3	0	0	149.6	100.4

TONNAGES OF FERTILIZER MATERIALS AND MIXED FERTILIZERS PURCHASED DURING THE PERIOD OF JULY 1, 1967 - JUNE 30, 1968

		Tonnage	
I.	Containing chiefly nitrogen:		
	Nitrate of ammonia	391	
	Nitrate of soda	215	
	Sulfate of ammonia	18	
	Cyanamid	104	
	Urea	1,955	
	Nitrogen solutions	348	
	Castor promace	295	
	Cottonseed meal	114	
	Dried blood	3	
	Anhydrous ammonia	12	
			3,455
II.	Containing chiefly phosphoric acid:		
	Superphosphate, 20%	1,904	
	Superphosphate, 46%	434	
	Dicalcium phosphate	593	
	Phosphate rock	20	
			2,951
III.	Containing chiefly potash:		
	Muriate of potash	1,974	
	Sulfate of potash-magnesia	54	
			2,028
IV.	Containing nitrogen and phosphoric acid:		
	Bone meal	206	
	Diammonium phosphate	4	
	Ammonium phosphonitrate	71	
			281
V.	Containing nitrogen and potash:		
	Nitrate of potash	26	
			26
VI.	Mixed fertilizers:		
	Commercial mixtures	43,311	
	Special and home mixtures	8,781	
	Special tobacco mixtures	631	
			52,723
VII.	Miscellaneous:		
	Borax	14	
	Sheep, cattle and poultry manure	1,814	
	Iron	4	
			1,832
	Total		63,296

MIXED FERTILIZER DISTRIBUTION

Grade	Tons	Grade	Tons	Grade	Tons
0- 8-30	15	8-12- 6	24	18-20-20	23
0-10-30	412	8-12-12	153	18-46- 0	1423
0-15-30	539	8-16- 8	29	20- 4- 9	25
0-20-20	89	8-16-16	375	20- 5- 5	20
0-25-25	53	9- 5- 3	73	20- 5-10	25
3- 9-21	12	10- 5- 5	421	20- 5-20	20
4- 3- 2	98	10- 6- 4	4185	20- 5-30	11
4- 6- 2	24	10- 8- 3	54	20-10- 5	423
4- 6- 4	60	10- 8- 4	10	20-10-10	255
4- 6- 6	27	10- 8- 8	56	20-10-15	446
4-10- 0	14	10-10-10	7942	20-12- 8	359
4-16-20	19	10-15-15	55	20-20-20	21
5- 4- 0	54	10-20-10	426	21- 6-11	129
5- 8- 7	11	10-20-20	441	21- 7-14	23
5-10- 5	1481	11- 4- 7	120	22- 4- 4	29
5-10-10	4105	12- 4- 4	75	22- 5- 5	1061
5-15-30	27	12- 4- 8	164	22- 8- 4	139
5-20-20	22	12- 5- 7	345	23- 7- 7	2188
6- 3- 6	1125	12- 6- 8	77	23- 7-16	66
6- 8- 6	168	12-12-12	194	23- 8- 7	50
6- 8- 8	3363	12-24-12	13	23-19-17	19
6-10- 4	365	13-13-13	35	24- 4- 6	283
6-12- 4	34	15- 6- 8	60	24- 6- 6	170
6-12-12	157	15- 8-12	761	24- 9- 5	28
6-24-24	44	15-10-10	3049	24-12-12	39
6-24-12	74	15-15-15	762	25- 5-10	58
7- 7- 7	220	16- 3- 3	422	25-12-10	189
8- 4- 4	31	16- 4- 4	85	26- 2-12	14
8- 6- 2	279	16- 8- 4	181	Other grades (less than 10 tons each)	240
8- 6- 4	372	16- 8- 8	175		
8- 8- 8	15	16- 8-12	11		
8-10-10	1434	17- 4- 4	19		
				Total	43,311

THE CONNECTICUT
AGRICULTURAL EXPERIMENT STATION
NEW HAVEN, CONNECTICUT 06504

James G. Horsfall
Director

PUBLICATION
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POSTAGE PAID
U. S. DEPARTMENT OF AGRICULTURE